

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings of claims:

LISTING OF CLAIMS:

1-16. (Cancelled)

17. (Currently Amended) An apparatus, comprising:

at least one processor;

at least one memory containing executable instructions which when executed performs operations comprising:

receiving at least one of a plurality of capacity request messages from a subscriber

station;

granting means for granting a transmission capacity to a specific the subscriber station;

transmitting means for transmitting a capacity grant message messages to at least one the subscriber station;

monitoring means for monitoring the at least one of the plurality of capacity request messages received from the at least one subscriber station, the capacity grant messages message sent by a base station, and a data transmission transmissions received from the at least one subscriber station,

wherein the at least one of the capacity request messages comprises an aggregate capacity request message comprising information based on a previous capacity request message sent by the at least one subscriber station; and

determining whether a mismatch exists between the granted transmission capacity and the data transmission received from the subscriber station based on information included in the aggregate capacity request message received from the subscriber station, the capacity grant message sent to the subscriber station, and the data transmission received from the subscriber station

avoiding means for avoiding a mismatch between a granted capacity and data received from the subscriber station due to a collision preventing receipt at the base station of the initial transmission of the previous capacity request.

18. – 24. (Cancelled)

25. (Currently Amended) An apparatus, comprising:

a transmitter configured to transmit capacity request messages of at least one connection; and

[[a]] at least one processor;

at least one memory containing executable instructions that when executed configured to provide operations comprising: [[,]]

allocate allocating connection-specifically a capacity granted by a base

station[[,]];

transmit transmitting at least one of a plurality of capacity request messages,

wherein the at least one of the capacity request messages comprise comprises an aggregate capacity request message comprising information based on a previous capacity request message sent by the subscriber station, wherein the aggregate message is sent information based on the

previous capacity request message is transmitted to avoid overcome a mismatch caused by a collision preventing receipt of the ~~initial transmission~~ of the previous capacity request message [.,]; and

transmit transmitting data from a subscriber station to the base station according to [[a]] the capacity allocation made by the subscriber station.

26 – 55. (Cancelled)

56. (Currently Amended) A method, comprising:

transmitting at least one of a plurality of capacity request messages of at least one connection;

receiving a capacity grant messages message from a base station, the capacity grant messages message monitored by the base station;

connection-specifically allocating [[a]]the capacity granted by the base station; transmitting the at least one capacity request messages message, wherein the at least one of the capacity request messages comprise comprises an aggregate capacity request message comprising information based on a previous capacity request message of a sent by a subscriber station, wherein the aggregate message is sent information based on the previous capacity request message is transmitted to avoid overcome a mismatch caused by a collision preventing receipt of the ~~initial transmission~~ of the previous capacity request message; and

transmitting data from the subscriber station to the base station according to a capacity the connection-specific allocation made by the subscriber station.

57. (Cancelled)

58. (Currently Amended) The method of claim 56, wherein the transmitting comprises transmitting an updateupdated capacity request message that replaces, at the base station, [[a]] previous capacity request information with aggregate capacity request information connection-specifically.

59. (Currently Amended) The method of claim 56, wherein the transmitting comprises transmitting an updateupdated capacity request message that replaces information based on need for bandwidth for a connection.

60. (Previously Presented) The method of claim 56, further comprising:
transmitting update messages comprising information based on previous capacity requests, wherein the update messages replace at the base station previous information on a connection.

61. (Currently Amended) A method, comprising:
receiving at least one of a plurality of capacity request messages from a subscriber station;
granting a transmission capacity to a specific the subscriber station;
transmitting a capacity grant message messages to at least one the subscriber station; and

monitoring the at least one of the plurality of capacity request messages received from the at least one subscriber station, the capacity grant message messages sent by a base station, and data transmission transmissions received from the at least one subscriber station,

wherein the at least one of the capacity request messages comprises an aggregate capacity request message comprising comprises information based on a previous capacity request message sent by the at least one subscriber station, and

determining whether a mismatch exists between the granted transmission capacity and the data transmission received from the subscriber station based on information included in the aggregate capacity request message received from the subscriber station, the capacity grant message sent to the subscriber station, and the data transmission received from the subscriber station

wherein the monitoring comprises using information based on the capacity request messages, the capacity grant messages, and the received transmissions for avoiding a mismatch between a granted capacity and data transmissions received from the subscriber station due to a collision preventing receipt at the base station of the initial transmission of the previous capacity request.

62. (Previously Presented) The method of claim 61, further comprising:

monitoring data based on messages and transmissions using a memory table.

63. (Cancelled)

64. (Currently Amended) A computer program embodied on a non-transitory computer-readable medium, the computer program configured to control a processor to perform operations comprising:

transmitting at least one of a plurality of capacity request messages of at least one connection;

receiving a capacity grant message messages from a base station, the capacity grant message messages monitored by the base station;

connection-specifically allocating [[a]]the capacity granted by the base station;

transmitting at least one of the capacity request messages wherein the at least one capacity request [[the]] messages comprise comprises an aggregate capacity request message comprising information based on a previous capacity request message sent by of a subscriber station, wherein the information based on the aggregate message is sent previous capacity request message is transmitted to avoid overcome a mismatch caused by a collision preventing receipt of the initial transmission of the previous capacity request message; and

transmitting data from the subscriber station to the base station according to [[a]] the capacity allocation made by the subscriber station.

65. (Currently Amended) The computer program of claim 64, further comprising:

transmitting an updateupdated capacity request message messages comprising information based on a previous capacity request message, wherein the updateupdated message messages replace replaces at the base station previous capacity request information on a connection.

66. (Currently Amended) A computer program embodied on a non-transitory computer-readable medium, the computer program configured to control a processor to perform operations comprising:

Transmitting receiving at least one of a plurality of capacity request messages of at least one connection from a subscriber station;

granting a transmission capacity to a specific the subscriber station;

transmitting a capacity grant message messages to at least one the subscriber station; and

monitoring the at least one of the plurality of capacity request messages received from the at least one subscriber station, the capacity grant message messages sent by a base station, and data transmission transmissions received from the at least one subscriber station,

wherein at least one of the capacity request messages comprises an aggregate capacity request message comprising information based on a previous capacity request message sent by the at least one subscriber station, and

determining whether a mismatch exists between the granted transmission capacity and the data transmission received from the subscriber station based on information included in the aggregate capacity request message received from the subscriber station, the capacity grant message sent to the subscriber station, and the data transmission received from the subscriber station

wherein the monitoring comprises using information based on the aggregate capacity request messages, the capacity grant messages and the received transmissions for avoiding a mismatch between a granted capacity and data received from a subscriber station due to a collision preventing receipt of the initial transmission of the previous capacity request.

67. (Currently Amended) The computer program of claim 66, further comprising:
receiving an updateupdated capacity request message messages comprising
information based on the aggregate previous capacity request requests, wherein the
updateupdated capacity request message messages replace replaces previous information on a
connection.

68. (Currently Amended) The apparatus of claim 17, wherein the monitoring means
monitors data is based on messages and transmissions using a memory table.

69. – 70. (Cancelled)

71. (Currently Amended) The apparatus of claim 17, further comprising:
means for transmitting an updateupdated capacity request message messages
comprising information based on a previous capacity requests request message, wherein the
updateupdated message messages replace replaces at the base station previous information with
aggregate information on a connection.

72. (Cancelled)

73. (Currently Amended) The apparatus of claim 25, wherein the transmitter is further
configured to transmit an updated capacity request message messages comprising information
based on [[a]] an aggregate previous capacity requests request message, wherein the updated
message replaces update messages replace at the base station previous information on a
connection.

74. – 75. (Cancelled)